

IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (currently amended) A non-aqueous electrolyte secondary cell comprising:

a cathode comprising $\text{Li}_x\text{Fe}_y\text{PO}_4$ and having a particle diameter not greater than 1 micrometer and wherein $0 < x \leq 2$ and $1 \leq y \leq 2$;

~~an a binderless anode consisting of comprising~~ [[:]]

(1) a sintered mesophase carbon material prepared by sintering a mesophase carbon material, said sintered mesophase carbon material being capable of doping/dedoping lithium [[:]], and

(2) a conductive agent comprising Li and a tin or silicon, containing metal material which forms an alloy or a compound with Li; and

a non-aqueous electrolyte solution.

2-3. (canceled)

4. (currently amended) A non-aqueous electrolyte secondary cell comprising:

a cathode having a molded body comprising a cathode active material and a conductive agent, said active material comprising $\text{Li}_x\text{Fe}_y\text{PO}_4$ and having a particle diameter not greater than 1 micrometer wherein $0 < x \leq 2$ and $1 \leq y \leq 2$;

~~an a binderless anode having a molded body consisting of comprising~~ (1) a ~~binderless-sintered~~ mesophase carbon material capable of doping/dedoping lithium, and (2) a conductive agent comprising, Li and a tin or silicon metal material which forms an alloy or a compound with Li; and

a non-aqueous electrolyte solution.

5-13. (canceled)

14. (canceled)

15. (previously presented) The non-aqueous electrolyte secondary cell of Claim 1, wherein said non-aqueous electrolyte solution comprises an electrolyte salt and a non-aqueous solvent.

16. (previously presented) The non-aqueous electrolyte secondary cell of Claim 15, wherein said electrolyte salt is a lithium salt having ion conductivity.

17. (previously presented) The non-aqueous electrolyte secondary cell of Claim 16, wherein said lithium salt is selected from the group consisting of LiClO_4 , LiAsF_6 , LiPF_6 , LiBF_4 , $\text{LiB}(\text{C}_6\text{H}_5)_4$, LiCl , LiBr , $\text{CH}_3\text{SO}_3\text{Li}$, $\text{N}(\text{C}_n\text{F}_{2n}\text{SO}_2)_2\text{Li}$, and mixtures thereof.

18. (previously presented) The non-aqueous electrolyte secondary cell of Claim 15, wherein said non-aqueous solvent is selected from the group consisting of propylene carbonate, ethylene carbonate, 1,2-dimethoxyethane, 1,2-diethoxyethane, diethyl carbonate, methyl ethyl carbonate, dimethyl carbonate, γ -butyrolactone, tetrahydrofuran, 1,3-dioxolane, 4-methyl-1,3-dioxolane, diethyl ether, sulfolane, methyl sulfolane, acetonitrile, propionitrile, and mixtures thereof.

19. (canceled)

20-21. (canceled)

22. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, the silicon containing metal material of the conductive agent is selected from a group of materials consisting of SiB_4 , SiB_6 , Mg_2Si , TiSi_2 , MoSi_2 , CoSi_2 , NiSi_2 , CaSi_2 , CrSi_2 , Cu_5Si , FeSi_2 , MnSi_2 , NbSi_2 , TaSi_2 , VSi , WSi_2 , and ZnSi_2 and mixtures thereof.

23. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, wherein said non-aqueous electrolyte solution comprises an electrolyte salt and a non-aqueous solvent.

24. (previously presented) The non-aqueous electrolyte secondary cell of Claim 23, wherein said electrolyte salt is a lithium salt having ion conductivity.

25. (previously presented) The non-aqueous electrolyte secondary cell of Claim 24, wherein said lithium salt is selected from the group consisting of LiClO_4 , LiAsF_6 , LiPF_6 , LiBF_4 , $\text{LiB}(\text{C}_6\text{H}_5)_4$, LiCl , LiBr , $\text{CH}_3\text{SO}_3\text{Li}$, $\text{N}(\text{C}_n\text{F}_{2n}\text{SO}_2)_2\text{Li}$, and mixtures thereof.

26. (previously presented) The non-aqueous electrolyte secondary cell of Claim 23, wherein said non-aqueous solvent is selected from the group consisting of propylene carbonate, ethylene carbonate, 1,2-dimethoxyethane, 1,2-diethoxyethane, diethyl carbonate, methyl ethyl carbonate, dimethyl carbonate, γ -butyrolactone, tetrahydrofuran, 1,3-dioxolane, 4-methyl-1,3-dioxolane, diethyl ether, sulfolane, methyl sulfolane, acetonitrile, propionitrile, and mixtures thereof.

27. (previously presented) The non-aqueous electrolyte secondary cell of Claim 1, wherein the cathode further comprises a conductive material and a binder.

28. (previously presented) The non-aqueous electrolyte secondary cell of Claim 1, wherein the anode further includes a molded and sintered current collector material combined with said sintered carbon material.

29. (currently amended) The non-aqueous electrolyte secondary cell of Claim 1, wherein the tin or silicon containing metal material includes a metal selected from the list of elements ~~and compounds~~ consisting of B, Mg, Ti, Mo, Co, Ni, Ca, Cr, Cu, Fe, Mn, Nb, Ta, V, and W.

30. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, wherein said cathode further comprises a conductive material and a binder.

31. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, wherein the anode further includes a molded and sintered current collector material combined with said sintered carbon material.

32. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, wherein the silicon metal material includes Mg_2Si , Ni_2Si .